



IFWO

RAW SEQUENCE LISTING

DATE: 09/20/2004

PATENT APPLICATION: US/10/934,004

TIME: 10:52:15

Input Set : N:\Cr3\RULE60\10934004.raw

Output Set: N:\CRF4\09202004\J934004.raw

SEQUENCE LISTING

3 (1) GENERAL INFORMATION:

5 (i) APPLICANT: Murphy, Brian R.
 6 Collins, Peter L.
 7 Whitehead, Stephen S.
 8 Bukreyev, Alexander A.
 9 Juhasz, Katalin

11 (ii) TITLE OF INVENTION: PRODUCTION OF ATTENUATED RESPIRATORY
 12 SYNCYTIAL VIRUS VACCINES FROM CLONED NUCLEOTIDE SEQUENCES

14 (iii) NUMBER OF SEQUENCES: 14

16 (iv) CORRESPONDENCE ADDRESS:

17 (A) ADDRESSEE: Townsend and Townsend and Crew LLP
 18 (B) STREET: Two Embarcadero Center, 8th Floor
 19 (C) CITY: San Francisco
 20 (D) STATE: CA
 21 (E) COUNTRY: USA
 22 (F) ZIP: 94111-3834

24 (v) COMPUTER READABLE FORM:

25 (A) MEDIUM TYPE: Floppy disk
 26 (B) COMPUTER: IBM PC compatible
 27 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 28 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25

30 (vi) CURRENT APPLICATION DATA:

C--> 31 (A) APPLICATION NUMBER: US/10/934,004
 C--> 32 (B) FILING DATE: 03-Sep-2004
 W--> 38 (C) CLASSIFICATION:

C--> 52 (vii) PRIOR APPLICATION DATA:

36 (A) APPLICATION NUMBER: US/09/444,221
 37 (B) FILING DATE: 19-NOV-1999
 41 (A) APPLICATION NUMBER: US 08/892,403
 42 (B) FILING DATE: 15-JUL-1997
 45 (A) APPLICATION NUMBER: US 60/047,634
 46 (B) FILING DATE: 23-MAY-1997
 49 (A) APPLICATION NUMBER: US 60/046,141
 50 (B) FILING DATE: 09-MAY-1997
 53 (A) APPLICATION NUMBER: US 60/021,773
 54 (B) FILING DATE: 15-JUL-1996

C--> 56 (viii) ATTORNEY/AGENT INFORMATION:

57 (A) NAME: Parmelee, Steven W.
 58 (B) REGISTRATION NUMBER: 31,990
 59 (C) REFERENCE/DOCKET NUMBER: 17634-000510

C--> 61 (ix) TELECOMMUNICATION INFORMATION:

62 (A) TELEPHONE: 206-467-9600

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63          (B) TELEFAX: 415-576-0300
66 (2) INFORMATION FOR SEQ ID NO: 1:
68     (i) SEQUENCE CHARACTERISTICS:
69         (A) LENGTH: 15223 base pairs
70         (B) TYPE: nucleic acid
71         (C) STRANDEDNESS: single
72         (D) TOPOLOGY: linear
74     (ii) MOLECULE TYPE: cDNA
78     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
80 ACGCGAAAAA ATGCGTACAA CAACTTGCA TAAACCAAAA AAATGGGGCA AATAAGAATT      60
82 TGATAAGTAC CACTTAAATT TAACTCCCTT GGTAGAGAT GGCAGCAAT TCATTGAGTA      120
84 TGATAAAAGT TAGATTACAA AATTTGTTTG ACAATGATGA AGTAGCATTG TTAAAAATAA      180
86 CATGCTATAC TGATAAATTA ATACATTTAA CTAATGCTTT GGCTAAGGCA GTGATACATA      240
88 CAATCAAATT GAATGGCATT GTGTTTGTGC ATGTTATTAC AAGTAGTGAT ATTTGCCCTA      300
90 ATAATAATAT TGTAATAAAA TCCAATTTCA CAACAATGCC AGTACTACAA AATGGAGGTT      360
92 ATATATGGGA AATGATGGAA TTAACACATT GCTCTCAACC TAATGGTCTA CTAGATGACA      420
94 ATTGTGAAAT TAAATTCTCC AAAAAACTAA GTGATTCAAC AATGACCAAT TATATGAATC      480
96 AATTATCTGA ATTACTTGGA TTTGATCTTA ATCCATAAAT TATAATTAAT ATCAACTAGC      540
98 AAATCAATGT CACTAACACC ATTAGTTAAT ATAAAACTTA ACAGAAGACA AAAATGGGGC      600
100 AAATAAATCA ATTCAGCCAA CCCAACCATG GACACAACCC ACAATGATAA TACACCACAA      660
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104 AGAGACATCA TAACACACAA ATTTATATAC TTGATAAATC ATGAATGCAT AGTGAGAAAA      780
106 CTTGATGAAA AGCAGGCCAC ATTTACATTC CTGGTCAACT ATGAAATGAA ACTATTACAC      840
108 AAAGTAGGAA GCACTAAATA TAAAAAATAT ACTGAATACA ACACAAAAATA TGGCACTTTC      900
110 CCTATGCCAA TATTCATCAA TCATGATGGG TTCTTAGAAT GCATTGGCAT TAAGCCTACA      960
112 AAGCATACTC CCATAATATA CAAGTATGAT CTCAATCCAT AAATTTCAAC ACAATATTCA      1020
114 CACAATCTAA AACAACAACCT CTATGCATAA CTATACTCCA TAGTCCAGAT GGAGCCTGAA      1080
116 AATTATAGTA ATTTAAACT TAAGGAGAGA TATAAGATAG AAGATGGGGC AAATACAACC      1140
118 ATGGCTCTTA GCAAAGTCAA GTTGAATGAT AACTCAACA AAGATCAACT TCTGTCATCC      1200
120 AGCAAATACA CCATCCAACG GAGCACAGGA GATAGTATTG ATACTCTTAA TTATGATGTG      1260
122 CAGAAACACA TCAATAAGTT ATGTGGCATG TTATTAATCA CAGAAGATGC TAATCATAAA      1320
124 TTCCTGGGT TAATAGGTAT GTTATATGCG ATGTCTAGGT TAGGAAGAGA AGACACCATA      1380
126 AAAATACTCA GAGATGCGGG ATATCATGTA AAAGCAAATG GAGTAGATGT AACACACAT      1440
128 CGTCAAGACA TTAATGGAAA AGAAATGAAA TTTGAAGTGT TAACATTGGC AAGCTTAACA      1500
130 ACTGAAATTC AAATCAACAT TGAGATAGAA TCTAGAAAAT CCTACAAAAA AATGCTAAAA      1560
132 GAAATGGGAG AGGTAGCTCC AGAATACAGG CATGACTCTC CTGATTGTGG GATGATAATA      1620
134 TTATGTATAG CAGCATTAGT AATAACTAAA TTAGCAGCAG GGGACAGATC TGGTCTTACA      1680
136 GCCGTGATTA GGAGAGCTAA TAATGTCCTA AAAAAAGAAA TGAAACGTTA CAAAGGCTTA      1740
138 CTACCCAAGG ACATAGCCAA CAGCTTCTAT GAAGTGTTTG AAAAACATCC CCACCTTTATA      1800
140 GATGTTTTTG TTCATTTTGG TATAGCACAA TCTTCTACCA GAGGTGGCAG TAGAGTTGAA      1860
142 GGGATTTTTG CAGGATTGTT TATGAATGCC TATGGTGACG GGCAAGTGAT GTTACGGTGG      1920
144 GGAGTCTTAG CAAAAATCAGT TAAAAATATT ATGTTAGGAC ATGCTAGTGT GCAAGCAGAA      1980
146 ATGGAACAAG TTGTTGAGGT TTATGAATAT GCCCAAAAAT TGGGTGGTGA AGCAGGATTC      2040
148 TACCATATAT TGAACAACCC AAAAGCATCA TTATTATCTT TGAATCAATT TCCTCACTTC      2100
150 TCCAGTGTAG TATTAGGCAA TGCTGCTGGC CTAGGCATAA TGGGAGAGTA CAGAGGTACA      2160
152 CCGAGGAATC AAGATCTATA TGATGCAGCA AAGGCATATG CTGAACAACT CAAAGAAAAA      2220
154 GGTGTGATTA ACTACAGTGT ACTACAGTTG ACAGCAGAAG AACTAGAGGC TATCAAACAT      2280
156 CAGCTTAATC CAAAAGATAA TGATGTAGAG CTTTGAGTTA ATAAAAAATG GGGCAAATAA      2340
158 ATCATCATGG AAAAGTTTGC TCCTGAATTC CATGGAGAAG ATGCAAACAA CAGGGCTACT      2400

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164	AATTCAACTA	TTATCAACCC	AACAAATGAG	ACAGATGATA	CTGCAGGGAA	CAAGCCCAAT	2580
166	TATCAAAGAA	AACCTCTAGT	AAGTTTCAAA	GAAGACCCTA	CACCAAGTGA	TAATCCCTTT	2640
168	TCTAAACTAT	ACAAAGAAAC	CATAGAAACA	TTTGATAACA	ATGAAGAAGA	ATCCAGCTAT	2700
170	TCATACGAAG	AAATAAATGA	TCAGACAAAC	GATAATATAA	CAGCAAGATT	AGATAGGATT	2760
172	GATGAAAAAT	TAAGTGAAAT	ACTAGGAATG	CTTCACACAT	TAGTAGTGGC	AAGTGCAGGA	2820
174	CCTACATCTG	CTCGGGATGG	TATAAGAGAT	GCCATGGTTG	GTTTAAGAGA	AGAAATGATA	2880
176	GAAAAAATCA	GAAGTGAAGC	ATTAATGACC	AATGACAGAT	TAGAAGCTAT	GGCAAGACTC	2940
178	AGGAATGAGG	AAAGTGAATA	GATGGCAAAA	GACACATCAG	ATGAAGTGTC	TCTCAATCCA	3000
180	ACATCAGAGA	AATTGAACAA	CCTATTGGAA	GGGAATGATA	GTGACAATGA	TCTATCACTT	3060
182	GAAGATTTCT	GATTAGTTAC	CAATCTTCAC	ATCAACACAC	AATACCAACA	GAAGACCAAC	3120
184	AAACTAACCA	ACCCAATCAT	CCAACCAAAC	ATCCATCCGC	CAATCAGCCA	AACAGCCAAC	3180
186	AAAACAACCA	GCCAATCCAA	AACTAACCAC	CCGGAACAAA	TCTATAATAT	AGTTACAAAA	3240
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190	TACACAGCTG	CTGTTCAATA	CAATGTCTTA	GAAAAAGACG	ATGACCCTGC	ATCACTTACA	3360
192	ATATGGGTGC	CCATGTTCCA	ATCATCTATG	CCAGCAGATT	TACTTATAAA	AGAACTAGCT	3420
194	AATGTCAACA	TACTAGTGAA	ACAAATATCC	ACACCCAAGG	GACCTTCACT	AAGAGTCATG	3480
196	ATAAACTCAA	GAAGTGCAGT	GCTAGCACAA	ATGCCCAGCA	AATTTACCAT	ATGCGCTAAT	3540
198	GTGTCCTTGG	ATGAAAGAAG	CAAACTAGCA	TATGATGTAA	CCACACCCCTG	TGAAATCAAG	3600
200	GCATGTAGTC	TAACATGCCCT	AAAATCAAAA	AATATGTTGA	CTACAGTTAA	AGATCTCACT	3660
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206	CTGAACACAC	TTGAAAATAT	AACAACCACT	GAATTCAAAA	ATGCTATCAC	AAATGCAAAA	3840
208	ATCATCCCTT	ACTCAGGATT	ACTATTAGTC	ATCACAGTGA	CTGACAACAA	AGGAGCATTC	3900
210	AAATACATAA	AGCCACAAAG	TCAATTCTATA	GTAGATCTTG	GAGCTTACCT	AGAAAAAGAA	3960
212	AGTATATATT	ATGTTACCAC	AAATTGGAAG	CACACAGCTA	CACGATTTGC	AATCAAACCC	4020
214	ATGGAAGATT	AACCTTTTTTC	CTCTACATCA	GTGTGTTAAT	TCATACAAAC	TTTCTACCTA	4080
216	CATTCTTCAC	TTCACCATCA	CAATCACAAC	CACCTGTGTG	TTCAACCAAT	CAAACAAAAC	4140
218	TTATCTGAAG	TCCCAGATCA	TCCCAAGTCA	TTGTTTATCA	GATCTAGTAC	TCAAATAAGT	4200
220	TAATAAAAAA	TATACACATG	GGGCAAATAA	TCATTGGAGG	AAATCCAACCT	AATCACAATA	4260
222	TCTGTTAACA	TAGACAAGTC	CACACACCAT	ACAGAATCAA	CCAATGGAAA	ATACATCCAT	4320
224	AACAATAGAA	TTCTCAAGCA	AATTTCTGGCC	TTACTTTTACA	CTAATACACA	TGATCACAAC	4380
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228	ATATAACGTA	TTCCATAACA	AAACCTTTGA	GTTACCAAGA	GCTCGAGTCA	ACACATAGCA	4500
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232	CTTTACAACA	CCTCATTAAC	ATCCCACCAT	GCAAACCACT	ATCCATACTA	TAAAGTAGTT	4620
234	AAATTAAAAAT	AGTCATAACA	ATGAAC'TAGG	ATATCAAGAC	TAACAATAAC	ATTGGGGCAA	4680
236	ATGCAAACAT	GTCCAAAAAC	AAGGACCAAC	GCACCGCTAA	GACATTAGAA	AGGACCTGGG	4740
238	ACACTCTCAA	TCATTTATTA	TTCATATCAT	CGTGCTTATA	TAAGTTAAAT	CTTAAATCTG	4800
240	TAGCACAAT	CACATTATCC	ATTCTGGCAA	TGATAATCTC	AACTTCACTT	ATAATTGCAG	4860
242	CCATCATATT	CATAGCCTCG	GCAAACCACA	AAGTCACACC	AACAAC'TGCA	ATCATACAAG	4920
244	ATGCAACAAG	CCAGATCAAG	AACACAACCC	CAACATACCT	CACCCAGAAT	CCTCAGCTTG	4980
246	GAATCAGTCC	CTCTAATCCG	TCTGAAATTA	CATCACAAT	CACCACCATA	CTAGCTTCAA	5040
248	CAACACCAGG	AGTCAAGTCA	ACCCTGCAAT	CCACAACAGT	CAAGACCAAA	AACACAACAA	5100
250	CAACTCAAAC	ACAACCCAGC	AAGCCCAACCA	CAAAAACACG	CCAAAACAAA	CCACCAAGCA	5160
252	AACCCCAATA	TGATTTTTCAC	TTTGAAGTGT	TCAACTTTTGT	ACCCTGCAGC	ATATGCAGCA	5220
254	ACAATCCAAC	CTGCTGGGCT	ATCTGCAAAA	GAATACCAAA	CAAAAAACCA	GGAAAGAAAA	5280
256	CCACTACCAA	GCCCACAAAA	AAACCAACCC	TCAAGACAAC	CAAAAAAGAT	CCCAAACCTC	5340

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258	AAACCACTAA	ATCAAAGGAA	GTACCCACCA	CCAAGCCCAC	AGAAGAGCCA	ACCATCAACA	5400
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262	TCACAAGTCA	AATGGAAACC	TTCCACTCAA	CTTCCTCCGA	AGGCAATCCA	AGCCCTTCTC	5520
264	AAGTCTCTAC	AACATCCGAG	TACCCATCAC	AACCTTCATC	TCCACCCAAC	ACACCACGCC	5580
266	AGTAGTTACT	TAAAAACATA	TTATCACAAA	AGGCCTTGAC	CAACTTAAAC	AGAATCAAAA	5640
268	TAAACTCTGG	GGCAAATAAC	AATGGAGTTG	CTAATCCTCA	AAGCAAATGC	AATTACCACA	5700
270	ATCCTCACTG	CAGTCACATT	TTGTTTTGCT	TCTGGTCAAA	ACATCACTGA	AGAATTTTAT	5760
272	CAATCAACAT	GCAGTGCAGT	TAGCAAAGGC	TATCTTAGTG	CTCTGAGAAC	TGGTTGGTAT	5820
274	ACCAGTGTTA	TAACTATAGA	ATTAAGTAAT	ATCAAGAAAA	ATAAGTGTA	TGGAACAGAT	5880
276	GCTAAGGTAA	AATTGATAAA	ACAAGAAATTA	GATAAATATA	AAAAATGCTGT	AACAGAAATG	5940
278	CAGTTGCTCA	TGCAAAGCAC	ACAAGCAACA	AACAATCGAG	CCAGAAGAGA	ACTACCAAGG	6000
280	TTTATGAAAT	ATACACTCAA	CAATGCCAAA	AAAACCAATG	TAACATTAAG	CAAGAAAAGG	6060
282	AAAAGAAGAT	TTCTTGGTTT	TTTGTTAGGT	GTTGGATCTG	CAATCGCCAG	TGGCGTTGCT	6120
284	GTATCTAAGG	TCTTGCACCT	AGAAGGGGAA	GTGAACAAAG	TCAAAAGTGC	TCTACTATCC	6180
286	ACAAACAAGG	CTGTAGTCAG	CTTATCAAAT	GGAGTTAGTG	TTTTAACCAG	CAAAGTGTTA	6240
288	GACCTCAAAA	ACTATATAGA	TAAACAATTG	TTACCTATTG	TGAACAAGCA	AAGCTGCAGC	6300
290	ATATCAAATA	TAGAAACTGT	GATAGAGTTC	CAACAAAAGA	ACAACAGACT	ACTAGAGATT	6360
292	ACCAGGGAAT	TTAGTGTTAA	TGCAGGCGTA	ACTACACCTG	TAAGCACTTA	CATGTTAACT	6420
294	AATAGTGAAT	TATTGTCAAT	AATCAATGAT	ATGCCTATAA	CAAATGATCA	GAAAAAGTTA	6480
296	ATGTCCAACA	ATGTTCAAAT	AGTTAGACAG	CAAAGTTACT	CTATCATGTC	CATAATAAAA	6540
298	GAGGAAGTCT	TAGCATATGT	AGTACAATTA	CCACTATATG	GTGTTATAGA	TACACCCTGT	6600
300	TGGAAACTAC	ACACATCCCC	TCTATGTACA	ACCACACAAA	AAGAAGGGTC	CAACATCTGT	6660
302	TTAACAAGAA	CTGACAGAGG	ATGGTACTGT	GACAAATGCAG	GATCAGTATC	TTTCTTCCCA	6720
304	CAAGCTGAAA	CATGTAAAGT	TCAATCAAAT	CGAGTATTTT	GTGACACAAT	GAACAGTTTA	6780
306	ACATTACCAA	GTGAAGTAAA	TCTCTGCAAT	GTTGACATAT	TCAACCCCAA	ATATGATTGT	6840
308	AAAATTATGA	CTTCAAAAAC	AGATGTAAGC	AGCTCCGTTA	TCACATCTCT	AGGAGCCATT	6900
310	GTGTCAATGCT	ATGGCAAAAC	TAAATGTACA	GCATCCAATA	AAAATCGTGG	AATCATAAAG	6960
312	ACATTTTCTA	ACGGGTGCGA	TTATGTATCA	AATAAAGGGG	TGGACACTGT	GTCTGTAGGT	7020
314	AACACATTAT	ATTATGTAAA	TAAGCAAGAA	GGTAAAAGTC	TCTATGTAAA	AGGTGAACCA	7080
316	ATAATAAATT	TCTATGAACC	ATTAGTATTC	CCCTCTGATG	AATTTGATGC	ATCAATATCT	7140
318	CAAGTCAACG	AGAAGATTAA	CCAGAGCCTA	GCATTTATTC	GTAAATCCGA	TGAATTATTA	7200
320	CATAATGTAA	ATGCTGGTAA	ATCCACCACA	AATATCATGA	TAACTACTAT	AATTATAGTG	7260
322	ATTATAGTAA	TATTGTTATC	ATTAATTGCT	GTTGGACTGC	TCTTATACTG	TAAGGCCAGA	7320
324	AGCACACCAG	TCACACTAAG	CAAAGATCAA	CTGAGTGGTA	TAAATAATAT	TGCATTTAGT	7380
326	AACTAAATAA	AAATAGCACC	TAATCATGTT	CTTACAATGG	TTTACTATCT	GCTCATAGAC	7440
328	AACCCATCTG	TCATTGGATT	TTCTTAAAAA	CTGAACCTCA	TCGAAACTCT	CATCTATAAA	7500
330	CCATCTCACT	TACACTATTT	AAGTAGATTC	CTAGTTTATA	GTTATATAAA	ACACAATTGC	7560
332	ATGCCAGATT	AACCTTACCAT	CTGTAAAAAT	GAAAACCTGG	GCAAAATATGT	CACGAAGGAA	7620
334	TCCTTGCAAA	TTTGAAATTC	GAGGTCATTG	CTTAAATGGT	AAGAGGTGTC	ATTTTATGTC	7680
336	TAATTATTTT	GAATGGCCAC	CCCATGCACT	GCTTGTAAGA	CAAACTTTTA	TGTTAAACAG	7740
338	AATACTTAAG	TCTATGGATA	AAAGTATAGA	TACCTTATCA	GAAATAAGTG	GAGCTGCAGA	7800
340	GTTGGACAGA	ACAGAAGAGT	ATGCTCTTGG	TGTAGTTGGA	GTGCTAGAGA	GTTATATAGG	7860
342	ATCAATAAAC	AATATAACTA	AACAATCAGC	ATGTGTTGCC	ATGAGCAAAC	TCCTCACTGA	7920
344	ACTCAATAGT	GATGATATCA	AAAAGCTGAG	GGACAATGAA	GAGCTAAATT	CACCCAAGAT	7980
346	AAGAGTGTA	AATACTGTCA	TATCATATAT	TGAAAGCAAC	AGGAAAACA	ATAAACAAAC	8040
348	TATCCATCTG	TTAAAAAGAT	TGCCAGCAGA	CGTATTGAAG	AAAACCATCA	AAAACACATT	8100
350	GGATATCCAT	AAGAGCATAA	CCATCAACAA	CCAAAAAGAA	TCAACTGTTA	GTGATACAAA	8160
352	TGACCATGCC	AAAAATAATG	ATACTACCTG	ACAAATATCC	TTGTAGTATA	ACTTCCATAC	8220
354	TAATAACAAG	TAGATGTAGA	GTTACTATGT	ATAATCAAAA	GAACACACTA	TATTTCAATC	8280

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360	ATATATATAC	AATATATATA	TTAGTGTCAT	AACACTCAAT	TCTAACACTC	ACCACATCGT	8460
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364	ATTCTGCTAA	TGTTTATCTA	ACCGATAGTT	ATTTAAAAGG	TGTTATCTCT	TTCTCAGAGT	8580
366	GTAATGCTTT	AGGAAGTTAC	ATATTCAATG	GTCCTTATCT	CAAAAATGAT	TATACCAACT	8640
368	TAATTAGTAG	ACAAAATCCA	TTAATAGAAC	ACATGAATCT	AAAGAACTA	AATATAACAC	8700
370	AGTCCTTAAT	ATCTAAGTAT	CATAAAGGTG	AAATAAAATT	AGAAGAACCT	ACTTATTTTC	8760
372	AGTCATTACT	TATGACATAC	AAGAGTATGA	CCTCGTCAGA	ACAGATTGCT	ACCACTAATT	8820
374	TACTTAAAAA	GATAATAAGA	AGAGCTATAG	AAATAAGTGA	TGTCAAAGTC	TATGCTATAT	8880
376	TGAATAAACT	AGGGCTTAAA	GAAAAGGACA	AGATTAAATC	CAACAATGGA	CAAGATGAAG	8940
378	ACAACTCAGT	TATTACGACC	ATAATCAAAG	ATGATATACT	TTCAGCTGTT	AAAGATAATC	9000
380	AATCTCATCT	TAAAGCAGAC	AAAAATCACT	CTACAAAACA	AAAAGACACA	ATCAAAAACAA	9060
382	CACTCTTGAA	GAAATTGATG	TGTTCAATGC	AACATCCTCC	ATCATGGTTA	ATACATTGGT	9120
384	TTAACTTATA	CACAAAATTA	AACAACATAT	TAACACAGTA	TCGATCAAAT	GAGGTAAAAA	9180
386	ACCATGGGTT	TACATTGATA	GATAATCAAA	CTCTTAGTGG	ATTTCAATTT	ATTTTGAACC	9240
388	AATATGGTTG	TATAGTTTAT	CATAAGGAAC	TCAAAGAAT	TACTGTGACA	ACCTATAATC	9300
390	AATTCTTGAC	ATGGAAAGAT	ATTAGCCTTA	GTAGATTAAA	TGTTTGTTTA	ATTACATGGA	9360
392	TTAGTAACTG	CTTGAACACA	TTAAATAAAA	GCTTAGGCTT	AAGATGCGGA	TTCAATAATG	9420
394	TTATCTTGAC	ACAACTATTC	CTTTATGGAG	ATTGTATACT	AAAGCTATTT	CACAATGAGG	9480
396	GGTTCTACAT	AATAAAAGAG	GTAGAGGGAT	TTATTATGTC	TCTAATTTTA	AATATAACAG	9540
398	AAGAAGATCA	ATTCAGAAAA	CGATTTTATA	ATAGTATGCT	CAACAACATC	ACAGATGCTG	9600
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406	TATTTGGACA	CCCAATGGTA	GATGAAAGAC	AAGCCATGGA	TGCTGTTAAA	ATTAATTGCA	9840
408	ATGAGACCAA	ATTTTACTTG	TTAAGCAGTC	TGAGTATGTT	AAGAGGTGCC	TTTATATATA	9900
410	GAATTATAAA	AGGGTTTGTA	AATAATTACA	ACAGATGGCC	TACTTTAAGA	AATGCTATTG	9960
412	TTTTACCCCT	AAGATGGTTA	ACTTACTATA	AACTAAACAC	TTATCCTTCT	TTGTTGGAAC	10020
414	TTACAGAAAG	AGATTTGATT	GTGTTATCAG	GACTACGTTT	CTATCGTGAG	TTTCGGTTGC	10080
416	CTAAAAAAGT	GGATCTTGAA	ATGATTATAA	ATGATAAAGC	TATATCACCT	CCTAAAAATT	10140
418	TGATATGGAC	TAGTTTCCCT	AGAAATTACA	TGCCATCACA	CATACAAAAC	TATATAGAAC	10200
420	ATGAAAAATT	AAAATTTTCC	GAGAGTGATA	AATCAAGAAG	AGTATTAGAG	TATTATTTAA	10260
422	GAGATAACAA	ATTCAATGAA	TGTGATTTAT	ACAACTGTGT	AGTTAATCAA	AGTTATCTCA	10320
424	ACAACCCTAA	TCATGTGGTA	TCATTGACAG	GCAAAGAAAG	AGAACTCAGT	GTAGGTAGAA	10380
426	TGTTTGCAAT	GCAACCGGGA	ATGTTTCAGAC	AGGTTCAAAT	ATTGGCAGAG	AAAATGATAG	10440
428	CTGAAAACAT	TTTACAATTC	TTTCCTGAAA	GTCTTACAAG	ATATGGTGAT	CTAGAACTAC	10500
430	AAAAAATATT	AGAACTGAAA	GCAGGAATAA	GTAACAAATC	AAATCGCTAC	AATGATAATT	10560
432	ACAACAATTA	CATTAGTAAG	TGCTCTATCA	TCACAGATCT	CAGCAAATTC	AATCAAGCAT	10620
434	TTGATATGA	AACGTCATGT	ATTTGTAGTG	ATGTGCTGGA	TGAACGTCAT	GGTGTACAAT	10680
436	CTCTATTTTC	CTGGTTACAT	TTAACTATTC	CTCATGTCAC	AATAATATGC	ACATATAGGC	10740
438	ATGCACCCCC	CTATATAGGA	GATCATATTG	TAGATCTTAA	CAATGTAGAT	GAACAAAGTG	10800
440	GATTATATAG	ATATCACATG	GGTGGCATCG	AAGGGTGGTG	TCAAAAACCTA	TGGACCATAG	10860
442	AAGCTATATC	ACTATTGGAT	CTAATATCTC	TCAAAGGGAA	ATTCTCAATT	ACTGCTTTAA	10920
444	TTAATGGTGA	CAATCAATCA	ATAGATATAA	GCAAACCAAT	CAGACTCATG	GAAGGTCAAA	10980
446	CTCATGCTCA	AGCAGATTAT	TTGCTAGCAT	TAAATAGCCT	TAAATTACTG	TATAAAGAGT	11040
448	ATGCAGGCAT	AGGCCACAAA	TTAAAAGGAA	CTGAGACTTA	TATATCACGA	GATATGCAAT	11100
450	TTATGAGTAA	AACAATTCAA	CATAACGGTG	TATATTACCC	AGCTAGTATA	AAGAAAGTCC	11160
452	TAAGAGTGGG	ACCGTGGATA	AACACTATAC	TTGATGATTT	CAAAGTGAGT	CTAGAATCTA	11220

VERIFICATION SUMMARY

DATE: 09/20/2004

PATENT APPLICATION: US/10/934,004

TIME: 10:52:16

Input Set : N:\Crf3\RULE60\10934004.raw

Output Set: N:\CRF4\09202004\J934004.raw

L:31 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:32 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:38 M:238 W: Alpha Fields not Ordered, Reordered [(C) CLASSIFICATION:] of (1)(vi)
L:40 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]
L:44 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]
L:48 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]
L:52 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]
L:56 M:220 C: Keyword misspelled or invalid format, [(viii) ATTORNEY/AGENT INFORMATION:]
L:61 M:220 C: Keyword misspelled or invalid format, [(ix) TELECOMMUNICATION INFORMATION:]